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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,946	11/21/2003	Graham W. Ketley	CN 37415	2911
4249 CAROL WILS	7590 05/21/200°	EXAMINER		
BP AMERICA	INC.	NGUYEN, TAM M		
MAIL CODE 5 4101 WINFIEI		ART UNIT	PAPER NUMBER	
WARRENVIL	LE, IL 60555	1764		
	,		MAIL DATE	DELIVERY MODE
			05/21/2007	PAPER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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· ·	Application No.	Applicant(s)				
	10/718, 964 -	JONES ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tam M. Nguyen	1764				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period and the provision of the provision	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	. the mailing date of this communication. (35 U.S.C. § 133).				
Status						
 Responsive to communication(s) filed on <u>20 F</u>. This action is FINAL. Since this application is in condition for allowarclosed in accordance with the practice under Exercise. 	s action is non-final. nce except for formal matters, pro					
Disposition of Claims		. ·				
4) Claim(s) 1-8,10,11 and 35 is/are pending in the 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-8, 10, 11, and 35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) according and are subjected to by the Examine 10) The drawing(s) filed on is/are: a) according to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11) The oath or declaration is objected to by the Examine 11)	wn from consideration. or election requirement. er. epted or b) objected to by the B drawing(s) be held in abeyance. See tion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 1, 2007 has been entered.

Claim Objections

Claim 1 is objected to because of the expression "Group VII" in line 5 of the claim. The expression should be recited as --Group VIII--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-8, 10, 11 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Brownawell et al. (EP-0252606) in view of Galuszka (US 5,637,259).

Brownawell discloses a process for increasing the cetane number of a middle distillate fraction by contacting the fraction with oxygen in the presence of a catalyst comprising a metal of Group VIII (e.g., cobalt) and a support to produce an effluent stream having an oxygen content incorporated therein. Brownawell also teaches that the effluent stream comprises the claimed amount of oxygen content. (See abstract; page 5, lines 9-29; Tables, VII-X)

Brownawell does not disclose that the support comprises magnesium oxide or calcium oxides, does not specifically disclose the amount of Group VIII metal, and does not disclose the effluent stream TAN number is less than about 2 or 1 mg KOH/g.

Galuszka teaches an oxidation catalyst comprising a support comprising either magnesium oxide or calcium oxide. (See col. 3, lines 26-40)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Brownawell by using either magnesium Art Unit: 1764

oxide or calcium oxide as suggested by Galuszka because Brownawell teaches that any suitable support can be used in the process.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Brownawell by using the claimed amount of cobalt because it is within the level of one of skill in the art to use any effective amount of cobalt including the claimed amount with the expectation that any amount of cobalt would give similar results.

Since the modified process of Brownawell is similar to the claimed process in terms of feedstock and catalyst, it would be expected that the effluent stream from the modified process of Brownawell would have the TAN number as claimed.

Response to Arguments

The argument that Brownawell does not teaches any TAN number is not persuasive because the modified process of Brownawell is similar to the claimed process in terms of feedstock, catalyst, and the amount of oxygen in the effluent. It would be expected that the effluent stream from the modified process of Brownawell would have the TAN number as claimed.

The argument that the combination of the Brownawell and the Galuszka references does not suggest Applicants' novel process as recited in the instant claims is not persuasive. The reason or motivation to modify the reference may often suggest what the inventor has done, but for a different purpose or to solve a different problem. It is not necessary that the prior art suggest the combination to achieve the same advantage or result discovered by applicant. In re

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Linter, 458 F.2d 1013, 173 USPQ 560 (CCPA 1972); In re Dillon, 919 F.2d 688, 16 USPQ2d 1897 (Fed. Cir. 1990), cert. denied, 500 U.S. 904 (1991).

The argument that Claims 1-8, 10, 11, and 35 are now commensurate in scope with the evidence present in the specification which shows the advantage of applicants' novel process is not persuasive. Runs 38 through 55, which were carried out in accordance with the process invention, employ 8% of cobalt and the support is MgO. It is unclear if 0.1 or 50% of cobalt as claimed would give similar results as 8% of cobalt. The examiner maintains that the evidence still does not appear to be commensurate in scope with the claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tam M. Nguyen whose telephone number is (571) 272-1452. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tam M. Nguyen Examiner Art Unit 1764

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